

CONSTRUCTION

Wire : 24 AWG bare copper conductor Ø 0,5 mm (nom.)
Insulation : HDPE Ø 0,9 mm (inf.)
Cabling element : a pair of two insulated conductors twisted together
Pair colour marking:


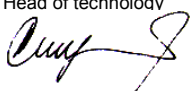
	Pair	a-wire	b-wire
Subunit №. 1	1	White	Blue
	2	White	Orange
	3	White	Green
	4	White	Brown
Subunit №. 2	5	White	Grey
	6	Red	Blue
	7	Red	Orange
	8	Red	Green
Subunit №. 3	9	Red	Brown
	10	Red	Grey
	11	Black	Blue
	12	Black	Orange
Subunit №. 4	13	Black	Green
	14	Black	Brown
	15	Black	Grey
	16	Yellow	Blue

	Pair	a-wire	b-wire
Subunit №. 5	17	Yellow	Orange
	18	Yellow	Green
	19	Yellow	Brown
Subunit №. 6	20	Yellow	Grey
	21	Violet	Blue
	22	Violet	Orange
Subunit №. 7	23	Violet	Green
	24	Violet	Brown
	25	Violet	Grey

Unit 12x2 Ø 7,5 mm (inf.)
 Subunits № 1 ÷ № 3 (4x2 + 4x2 + 4x2) twisted and wrapped by marking tape
Unit 13x2 Ø 7,5 mm (inf.)
 Subunits № 4 ÷ № 7 (4x2 + 3x2 + 3x2 + 3x2) twisted and wrapped by marking tape
Unit 25x2 Ø 8,5 mm (inf.)
 Subunits № 1 ÷ № 7 ((4x2) + (4x2 + 4x2 + 4x2 + 3x2 + 3x2 + 3x2)) twisted and wrapped by marking tape

Core

Pair number:	Construction:		Marking tapes:
25	2 + 8 + 15	concentric	-
50	12 + 13 + 12 + 13	unit	Blue/Blue/Orange/Orange
100	4x 25	unit	Blue/Orange/Green/Brown
150	1x 25 + 5x 25	unit	Blue Orange/Green/Brown/Grey/White

			25 ÷ 150 PAIR #24 AWG UTP CAT 3 LSOH
		Ing. František Cempírek Head of technology 	<i>Replaces TA No. 39.3/02, 95.3/02, 37.0/03</i>
*	10.05.2004		TECHNICAL AGREEMENT No. 043.0/04
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Wrapping : 1x manufacturer's identification thread
1x plastic foil

Sheath : FRNC – Grey RAL 7032; rip-cord longitudinally applied under the sheath

Identific. marking : colour black

Wording : according to the customer's request – mentioned in contract of purchase

Cable	Inf. diameter of core (mm)	Min. thickness of sheath (mm)	Max. diameter of cable (mm)	Length (m)	Drum V (cm)	Coil (mm)
25x2	8,5	0,75	11,5	1 000/305	80	450x190x390
50x2	14,0	0,80	17,5	1 000	100	–
100x2	18,9	0,75	23,5	1 000	120	–
150x2	23,2	1,0	28,0	1 000	140	–

MEASURING AND TESTING

Electrical characteristics:

(Measured at 20 °C by methods in accordance with particular parts of norm DIN VDE 0472)

Conductor DCR ≤ 9,38 Ω/100 m

DCR unbalance > 5%

Mutual capacitance (800 Hz) max 66 pF/m

Capacitance unbalance »e« (800 Hz) ≤ 330 pF/100 m


Structural return loss (SRL)
(1-10 MHz) min. 12 dB/100m
(10-16 MHz) min. 12-10log(f/10) dB/100m

Attenuation ≤ 2,320 √f + 0,238 f dB/100 m

Near end crosstalk (NEXT) ≥ 45 – 15 log₁₀ (f / 0,772) dB/100 m

Power sum near end crosstalk (PS-NEXT) ≥ 43 – 15 log₁₀ (f / 0,772) dB/100 m

Frequency (MHz)	Attenuation (dB/100 m)	NEXT (dB/100 m)	PS-NEXT (dB/100 m)	SRL (dB)
	max.	min.	min.	min.
0,772	2,2	45	43	12
1,0	2,6	44	41	12
4,0	5,6	34	32	12
8,0	8,5	29	27	12
10,0	9,7	28	26	12
16,0	13,1	25	23	10

			<p style="text-align: center;">25 ÷ 150 PAIR #24 AWG UTP CAT 3 LSOH</p> <p style="text-align: right;"><i>Replaces TA No. 39.3/02, 95.3/02, 37.0/03</i></p>	
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